

ABSTRACT

A polymer electrolyte composition characterized by comprising: (1) a crosslinked material of a polyether
5 binary copolymer which has a main chain comprising repeating units represented by the formula (i) and crosslinking units represented by the formula (ii) and which has a weight-average molecular weight of 10^4 to 10^7 ,
(2) an electrolyte solution comprising an aprotic organic
10 solvent, (3) an additive, as an optical ingredient, which comprises an ether compound having an ethylene oxide unit, and (4) an electrolyte salt compound comprising a lithium salt compound. The composition is excellent in liquid retention and ionic conductivity, is usable in a wide
15 temperature range, and has excellent electrochemical properties.